

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX12LL40-UNV-A-LCP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33973.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/23/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-A-LCP

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER AISLE OPTICS NO RESISTOR DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 11333 LMS

[TESTDATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	95.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18091	2716	2691
55	2349	1541	836
65	1508	535	841
75	979	575	624
85	497	482	777

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51
2.5	11504.95	11464.20	11362.05	11176.50	11031.95	11176.50	11362.05	11464.20	11504.95	11464.20
5.0	11538.50	11368.05	11023.05	10641.37	10426.10	10641.37	11023.05	11368.05	11538.50	11368.05
7.5	11592.30	11237.55	10482.00	9768.41	9499.43	9768.41	10482.00	11237.55	11592.30	11237.55
10.0	11661.05	11050.80	9754.64	8677.68	8361.00	8677.68	9754.64	11050.80	11661.05	11050.80
12.5	11742.30	10803.60	8895.35	7541.19	7197.06	7541.19	8895.35	10803.60	11742.30	10803.60
15.0	11850.50	10495.05	7955.93	6448.36	6079.03	6448.36	7955.93	10495.05	11850.50	10495.05
17.5	11968.65	10106.54	7001.26	5410.01	5067.44	5410.01	7001.26	10106.54	11968.65	10106.54
20.0	12110.00	9625.45	6062.78	4533.85	4242.10	4533.85	6062.78	9625.45	12110.00	9625.45
22.5	12213.70	9040.28	5153.94	3816.77	3570.59	3816.77	5153.94	9040.28	12213.70	9040.28
25.0	12284.15	8386.23	4357.11	3222.17	3033.86	3222.17	4357.11	8386.23	12284.15	8386.23
27.5	12248.45	7609.97	3644.55	2756.59	2618.11	2756.59	3644.55	7609.97	12248.45	7609.97
30.0	12065.40	6726.46	3044.30	2405.44	2329.69	2405.44	3044.30	6726.46	12065.40	6726.46
32.5	11667.05	5760.67	2552.02	2142.88	2108.22	2142.88	2552.02	5760.67	11667.05	5760.67
35.0	11007.95	4728.81	2172.09	1940.60	1937.15	1940.60	2172.09	4728.81	11007.95	4728.81
37.5	10188.30	3640.01	1880.33	1788.00	1798.84	1788.00	1880.33	3640.01	10188.30	3640.01
40.0	9339.84	2596.89	1655.46	1647.45	1650.56	1647.45	1655.46	2596.89	9339.84	2596.89
42.5	8462.02	1847.72	1480.23	1498.90	1500.34	1498.90	1480.23	1847.72	8462.02	1847.72
45.0	7236.32	1362.79	1324.26	1344.01	1343.42	1344.01	1324.26	1362.79	7236.32	1362.79
47.5	5351.95	1083.77	1167.19	1193.09	1185.15	1193.09	1167.19	1083.77	5351.95	1083.77
50.0	3029.70	898.93	1014.12	1030.37	993.78	1030.37	1014.12	898.93	3029.70	898.93
52.5	1431.80	752.98	854.70	826.04	662.71	826.04	854.70	752.98	1431.80	752.98
55.0	796.12	632.84	678.76	527.53	379.56	527.53	678.76	632.84	796.12	632.84
57.5	625.76	516.46	490.21	293.20	308.53	293.20	490.21	516.46	625.76	516.46
60.0	533.94	420.91	336.90	266.38	324.25	266.38	336.90	420.91	533.94	420.91
62.5	462.63	359.32	247.08	267.19	374.71	267.19	247.08	359.32	462.63	359.32
65.0	403.66	325.51	203.24	303.07	332.06	303.07	203.24	325.51	403.66	325.51
67.5	344.53	296.36	182.90	263.06	292.35	263.06	182.90	296.36	344.53	296.36
70.0	273.72	262.81	177.54	237.90	271.53	237.90	177.54	262.81	273.72	262.81
72.5	223.11	216.46	185.59	214.59	245.48	214.59	185.59	216.46	223.11	216.46
75.0	184.17	160.46	177.06	188.41	202.04	188.41	177.06	160.46	184.17	160.46
77.5	139.71	118.20	163.12	144.80	166.39	144.80	163.12	118.20	139.71	118.20
80.0	102.48	99.16	126.45	131.26	165.68	131.26	126.45	99.16	102.48	99.16
82.5	72.75	80.29	110.04	143.67	179.46	143.67	110.04	80.29	72.75	80.29
85.0	51.22	76.82	109.08	159.77	188.73	159.77	109.08	76.82	51.22	76.82
87.5	35.28	80.09	125.99	157.40	183.83	157.40	125.99	80.09	35.28	80.09
90.0	21.67	69.32	102.19	128.78	143.68	128.78	102.19	69.32	21.67	69.32
92.5	16.25	51.82	65.78	74.19	83.38	74.19	65.78	51.82	16.25	51.82
95.0	18.14	38.09	24.47	25.10	32.15	25.10	24.47	38.09	18.14	38.09
97.5	21.77	14.46	8.92	13.69	17.56	13.69	8.92	14.46	21.77	14.46
100.0	22.56	9.81	7.40	10.44	13.89	10.44	7.40	9.81	22.56	9.81
102.5	21.10	9.89	6.30	8.55	10.88	8.55	6.30	9.89	21.10	9.89
105.0	18.25	10.19	5.21	7.31	9.27	7.31	5.21	10.19	18.25	10.19
107.5	15.20	9.74	4.06	6.25	8.07	6.25	4.06	9.74	15.20	9.74
110.0	12.74	8.47	3.32	4.97	6.80	4.97	3.32	8.47	12.74	8.47
112.5	10.82	7.07	2.93	3.77	5.49	3.77	2.93	7.07	10.82	7.07
115.0	9.20	6.02	2.66	3.03	4.39	3.03	2.66	6.02	9.20	6.02
117.5	8.00	5.80	2.44	2.62	3.69	2.62	2.44	5.80	8.00	5.80
120.0	7.27	6.22	2.16	2.49	3.33	2.49	2.16	6.22	7.27	6.22
122.5	6.95	5.59	2.35	2.24	3.00	2.24	2.35	5.59	6.95	5.59
125.0	6.70	4.28	5.10	1.58	2.27	1.58	5.10	4.28	6.70	4.28
127.5	6.48	3.50	9.45	2.14	2.00	2.14	9.45	3.50	6.48	3.50
130.0	6.03	3.23	8.73	6.83	4.05	6.83	8.73	3.23	6.03	3.23
132.5	5.27	3.24	3.86	14.73	11.63	14.73	3.86	3.24	5.27	3.24

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CANDELA TABULATION - (Cont.)

135.0	4.20	2.94	1.57	14.36	18.62	14.36	1.57	2.94	4.20	2.94
137.5	3.15	2.46	0.63	5.59	13.96	5.59	0.63	2.46	3.15	2.46
140.0	2.18	2.10	0.24	2.12	4.82	2.12	0.24	2.10	2.18	2.10
142.5	1.47	1.74	0.11	0.87	1.77	0.87	0.11	1.74	1.47	1.74
145.0	0.95	1.45	0.17	0.38	0.71	0.38	0.17	1.45	0.95	1.45
147.5	0.61	1.22	0.32	0.20	0.17	0.20	0.32	1.22	0.61	1.22
150.0	0.37	1.04	0.57	0.19	0.00	0.19	0.57	1.04	0.37	1.04
152.5	0.27	1.06	0.83	0.30	0.05	0.30	0.83	1.06	0.27	1.06
155.0	0.43	1.03	0.99	0.45	0.21	0.45	0.99	1.03	0.43	1.03
157.5	0.51	1.06	1.12	0.78	0.57	0.78	1.12	1.06	0.51	1.06
160.0	0.64	1.09	1.24	0.96	0.78	0.96	1.24	1.09	0.64	1.09
162.5	0.76	1.12	1.25	1.15	1.08	1.15	1.25	1.12	0.76	1.12
165.0	0.74	1.08	1.22	1.27	1.29	1.27	1.22	1.08	0.74	1.08
167.5	0.71	0.92	1.04	1.26	1.31	1.26	1.04	0.92	0.71	0.92
170.0	0.72	0.94	1.02	1.23	1.37	1.23	1.02	0.94	0.72	0.94
172.5	0.93	1.05	1.08	1.32	1.48	1.32	1.08	1.05	0.93	1.05
175.0	1.11	1.25	1.18	1.37	1.54	1.37	1.18	1.25	1.11	1.25
177.5	1.19	1.37	1.05	1.40	1.49	1.40	1.05	1.37	1.19	1.37
180.0	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51	11432.51
2.5	11362.05	11176.50	11031.95	11176.50	11362.05	11464.20	11504.95
5.0	11023.05	10641.37	10426.10	10641.37	11023.05	11368.05	11538.50
7.5	10482.00	9768.41	9499.43	9768.41	10482.00	11237.55	11592.30
10.0	9754.64	8677.68	8361.00	8677.68	9754.64	11050.80	11661.05
12.5	8895.35	7541.19	7197.06	7541.19	8895.35	10803.60	11742.30
15.0	7955.93	6448.36	6079.03	6448.36	7955.93	10495.05	11850.50
17.5	7001.26	5410.01	5067.44	5410.01	7001.26	10106.54	11968.65
20.0	6062.78	4533.85	4242.10	4533.85	6062.78	9625.45	12110.00
22.5	5153.94	3816.77	3570.59	3816.77	5153.94	9040.28	12213.70
25.0	4357.11	3222.17	3033.86	3222.17	4357.11	8386.23	12284.15
27.5	3644.55	2756.59	2618.11	2756.59	3644.55	7609.97	12248.45
30.0	3044.30	2405.44	2329.69	2405.44	3044.30	6726.46	12065.40
32.5	2552.02	2142.88	2108.22	2142.88	2552.02	5760.67	11667.05
35.0	2172.09	1940.60	1937.15	1940.60	2172.09	4728.81	11007.95
37.5	1880.33	1788.00	1798.84	1788.00	1880.33	3640.01	10188.30
40.0	1655.46	1647.45	1650.56	1647.45	1655.46	2596.89	9339.84
42.5	1480.23	1498.90	1500.34	1498.90	1480.23	1847.72	8462.02
45.0	1324.26	1344.01	1343.42	1344.01	1324.26	1362.79	7236.32
47.5	1167.19	1193.09	1185.15	1193.09	1167.19	1083.77	5351.95
50.0	1014.12	1030.37	993.78	1030.37	1014.12	898.93	3029.70
52.5	854.70	826.04	662.71	826.04	854.70	752.98	1431.80
55.0	678.76	527.53	379.56	527.53	678.76	632.84	796.12
57.5	490.21	293.20	308.53	293.20	490.21	516.46	625.76
60.0	336.90	266.38	324.25	266.38	336.90	420.91	533.94
62.5	247.08	267.19	374.71	267.19	247.08	359.32	462.63
65.0	203.24	303.07	332.06	303.07	203.24	325.51	403.66
67.5	182.90	263.06	292.35	263.06	182.90	296.36	344.53
70.0	177.54	237.90	271.53	237.90	177.54	262.81	273.72
72.5	185.59	214.59	245.48	214.59	185.59	216.46	223.11
75.0	177.06	188.41	202.04	188.41	177.06	160.46	184.17
77.5	163.12	144.80	166.39	144.80	163.12	118.20	139.71
80.0	126.45	131.26	165.68	131.26	126.45	99.16	102.48

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CANDELA TABULATION - (Cont.)

82.5	110.04	143.67	179.46	143.67	110.04	80.29	72.75
85.0	109.08	159.77	188.73	159.77	109.08	76.82	51.22
87.5	125.99	157.40	183.83	157.40	125.99	80.09	35.28
90.0	102.19	128.78	143.68	128.78	102.19	69.32	21.67
92.5	65.78	74.19	83.38	74.19	65.78	51.82	16.25
95.0	24.47	25.10	32.15	25.10	24.47	38.09	18.14
97.5	8.92	13.69	17.56	13.69	8.92	14.46	21.77
100.0	7.40	10.44	13.89	10.44	7.40	9.81	22.56
102.5	6.30	8.55	10.88	8.55	6.30	9.89	21.10
105.0	5.21	7.31	9.27	7.31	5.21	10.19	18.25
107.5	4.06	6.25	8.07	6.25	4.06	9.74	15.20
110.0	3.32	4.97	6.80	4.97	3.32	8.47	12.74
112.5	2.93	3.77	5.49	3.77	2.93	7.07	10.82
115.0	2.66	3.03	4.39	3.03	2.66	6.02	9.20
117.5	2.44	2.62	3.69	2.62	2.44	5.80	8.00
120.0	2.16	2.49	3.33	2.49	2.16	6.22	7.27
122.5	2.35	2.24	3.00	2.24	2.35	5.59	6.95
125.0	5.10	1.58	2.27	1.58	5.10	4.28	6.70
127.5	9.45	2.14	2.00	2.14	9.45	3.50	6.48
130.0	8.73	6.83	4.05	6.83	8.73	3.23	6.03
132.5	3.86	14.73	11.63	14.73	3.86	3.24	5.27
135.0	1.57	14.36	18.62	14.36	1.57	2.94	4.20
137.5	0.63	5.59	13.96	5.59	0.63	2.46	3.15
140.0	0.24	2.12	4.82	2.12	0.24	2.10	2.18
142.5	0.11	0.87	1.77	0.87	0.11	1.74	1.47
145.0	0.17	0.38	0.71	0.38	0.17	1.45	0.95
147.5	0.32	0.20	0.17	0.20	0.32	1.22	0.61
150.0	0.57	0.19	0.00	0.19	0.57	1.04	0.37
152.5	0.83	0.30	0.05	0.30	0.83	1.06	0.27
155.0	0.99	0.45	0.21	0.45	0.99	1.03	0.43
157.5	1.12	0.78	0.57	0.78	1.12	1.06	0.51
160.0	1.24	0.96	0.78	0.96	1.24	1.09	0.64
162.5	1.25	1.15	1.08	1.15	1.25	1.12	0.76
165.0	1.22	1.27	1.29	1.27	1.22	1.08	0.74
167.5	1.04	1.26	1.31	1.26	1.04	0.92	0.71
170.0	1.02	1.23	1.37	1.23	1.02	0.94	0.72
172.5	1.08	1.32	1.48	1.32	1.08	1.05	0.93
175.0	1.18	1.37	1.54	1.37	1.18	1.25	1.11
177.5	1.05	1.40	1.49	1.40	1.05	1.37	1.19
180.0	1.24	1.24	1.24	1.24	1.24	1.24	1.24

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3375.32	N.A.	29.80
0-30	6089.06	N.A.	53.70
0-40	8473.01	N.A.	74.80
0-60	10656.91	N.A.	94.00
0-80	11140.41	N.A.	98.30
0-90	11265.58	N.A.	99.40
10-90	10251.46	N.A.	90.50
20-40	5097.69	N.A.	45.00
20-50	6679.05	N.A.	58.90
40-70	2478.11	N.A.	21.90
60-80	483.50	N.A.	4.30
70-80	189.29	N.A.	1.70
80-90	125.17	N.A.	1.10
90-110	52.38	N.A.	0.50
90-120	57.26	N.A.	0.50
90-130	61.17	N.A.	0.50
90-150	66.33	N.A.	0.60
90-180	67.08	N.A.	0.60
110-180	14.70	N.A.	0.10
0-180	11332.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1014.12
10-20	2361.2
20-30	2713.74
30-40	2383.95
40-50	1581.36
50-60	602.54
60-70	294.21
70-80	189.29
80-90	125.17
90-100	42.77
100-110	9.61
110-120	4.89
120-130	3.90
130-140	4.59
140-150	0.58
150-160	0.33
160-170	0.31
170-180	0.11

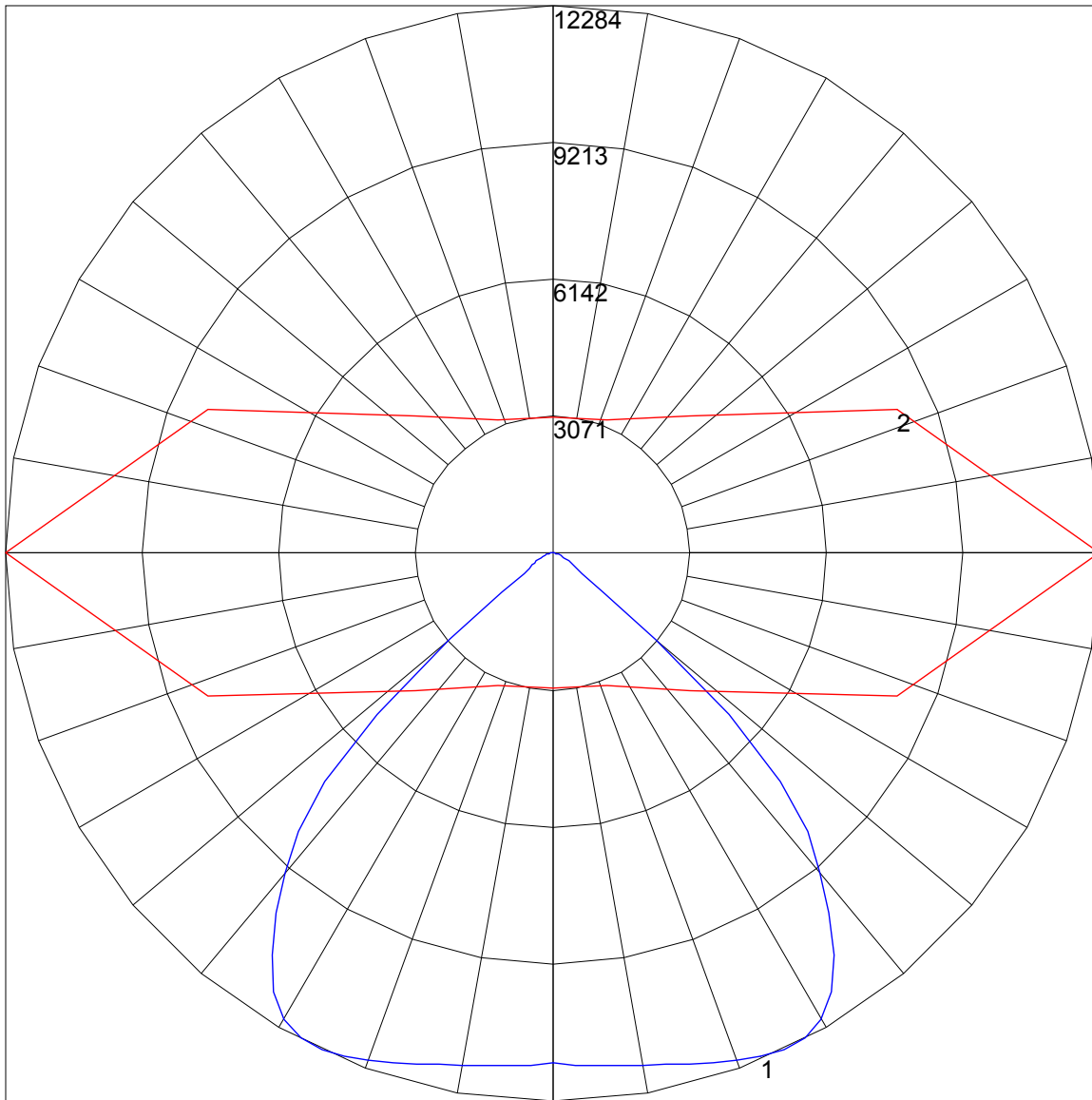
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	94	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	82	71	65	60	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	67	60	55	76	66	59	55	64	58	54	63	58	54	62	57	53	52
8	73	62	55	51	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	44	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 12284.15 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)